

ROLLING BEARING

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Abstract of GB2258274

In a rolling bearing, at least one of the races and rolling members is made of an alloy steel that has a residual austenite content (γ_R) of 20-45 vol% and which contains 1-3 wt% Cr, and Mo in an amount ranging from one third of the Cr addition to 2.0 wt%, with the carburized or carbonitrided rolling surface having the following range of Vickers hardness (Hv) in relation to the residual austenite content: $-4.7 \times (\gamma_R \text{ vol\%}) + 920 \leq H_v \leq -4.7 \times (\gamma_R \text{ vol\%}) + 1,020$ The rolling surfaces contain fine-grained carbides and carbonitrides of average particle size 0.5-1.5 μm , and occupying 10-30% by area.

$$-4.7 \times (\gamma_R \text{ vol\%}) + 920 \leq H_v \leq -4.7 \times (\gamma_R \text{ vol\%}) + 1,020$$

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